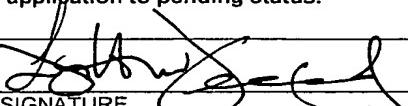


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| Form PTO-1390<br><br>TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       | EXPRESS MAIL LABEL NO.: EL 979110163 US<br><br>ATTORNEY'S DOCKET NUMBER: 21099.0075U2 |
| INTERNATIONAL APPLICATION NO.<br><br><b>PCT/US2004/013522</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | INTERNATIONAL FILING DATE<br><br><b>29 April 2004</b> | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><br><b>10/554,711</b>              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       | PRIORITY DATE CLAIMED<br><br><b>29 April 2003</b>                                     |
| TITLE OF INVENTION:<br><br><b>Global Analysis of Transposable Elements as Molecular Markers of Cancer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                       |                                                                                       |
| APPLICANT(S) FOR DO/EO/US:<br><br><b>MCDONALD, John F.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                                                                                       |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                                                                       |
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |                                                       |                                                                                       |
| Items 11 to 20 below concern document(s) or information included:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                                                                                       |
| <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825. The contents of the paper copy and the computer-readable form of the Sequence Listing submitted herewith are the same and include no new matter, as required by 37 C.F.R. 1.821(f).</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. Other items or information:</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                            |            |                                        |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------|------------|----------------------------------------|--------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)                                                                                                                                                                                                                                                                                                                            |              | INTERNATIONAL APPLICATION NO.<br>PCT/US2004/013522                         |            | ATTORNEY DOCKET NUMBER<br>21099.0075U2 |              |
| <b>The following fees have been submitted</b>                                                                                                                                                                                                                                                                                                                              |              |                                                                            |            | CALCULATIONS                           | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee ..... \$300.00                                                                                                                                                                                                                                                                                                  |              |                                                                            |            | \$                                     |              |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If written opinion prepared by ISA/US or the IPER prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$ 0.00                                                                                                                                                            |              |                                                                            |            | \$                                     |              |
| All other situations ..... \$200.00                                                                                                                                                                                                                                                                                                                                        |              |                                                                            |            |                                        |              |
| 23. <input checked="" type="checkbox"/> Search Fee<br>If written opinion prepared by ISA/US or the IPER prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$ 0.00                                                                                                                                                                 |              |                                                                            |            | \$                                     |              |
| If Search fee (37 CFR 1.445(a)(2) in International Application to USPTO as ISA) ..... \$100.00                                                                                                                                                                                                                                                                             |              |                                                                            |            |                                        |              |
| ISR prepared by an ISA other than the US and provided to USPTO ..... \$400.00                                                                                                                                                                                                                                                                                              |              |                                                                            |            |                                        |              |
| All other situations ..... \$500.00                                                                                                                                                                                                                                                                                                                                        |              |                                                                            |            |                                        |              |
| <b>TOTAL OF 21, 22 AND 23 =</b>                                                                                                                                                                                                                                                                                                                                            |              |                                                                            |            | \$                                     |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.                                                                                                 |              |                                                                            |            |                                        |              |
| Total Sheets                                                                                                                                                                                                                                                                                                                                                               | Extra Sheets | No. of each additional 50 or fraction thereof (round up to a whole number) | RATE       |                                        |              |
| 230 - 100                                                                                                                                                                                                                                                                                                                                                                  | 130 / 50 =   | 3                                                                          | X \$250    | \$                                     |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).                                                                                                                                                                                                                               |              |                                                                            |            | \$                                     |              |
| CLAIMS                                                                                                                                                                                                                                                                                                                                                                     | NUMBER FILED | NUMBER EXTRA                                                               | RATE       |                                        |              |
| Total claims                                                                                                                                                                                                                                                                                                                                                               | 80 - 20 =    | 60                                                                         | X \$50.00  | \$                                     |              |
| Independent claims                                                                                                                                                                                                                                                                                                                                                         | 12 - 3 =     | 9                                                                          | X \$200.00 | \$                                     |              |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)                                                                                                                                                                                                                                                                                                                                |              |                                                                            |            | + \$360.00                             | \$           |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>                                                                                                                                                                                                                                                                                                                                       |              |                                                                            |            | \$                                     |              |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½ -                                                                                                                                                                                                                                                   |              |                                                                            |            | \$                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                            |            | <b>SUBTOTAL =</b>                      | \$           |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 months <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +                                                                                                                                                            |              |                                                                            |            | \$                                     |              |
| <b>TOTAL NATIONAL FEE =</b>                                                                                                                                                                                                                                                                                                                                                |              |                                                                            |            | \$ 0.00                                |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property +                                                                                                                                                                                                    |              |                                                                            |            | \$                                     |              |
| <b>TOTAL FEES ENCLOSED =</b>                                                                                                                                                                                                                                                                                                                                               |              |                                                                            |            | \$ 0.00                                |              |
|                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                            |            | Amount to be refunded:                 | \$           |
|                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                            |            | charged:                               | \$           |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.                                                                                                                                                                                                                                                                         |              |                                                                            |            |                                        |              |
| b. <input type="checkbox"/> Please charge my Deposit Account No.14-0629 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.                                                                                                                                                                                                     |              |                                                                            |            |                                        |              |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any overpayment to Deposit Account No. 14-0629. A duplicate copy of this sheet is enclosed.                                                                                                                                   |              |                                                                            |            |                                        |              |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.                                                                                                        |              |                                                                            |            |                                        |              |
| e. <input checked="" type="checkbox"/> Pursuant to 37 C.F.R. §1.136(a)(3), the Commissioner is hereby requested and authorized to treat any concurrent or future reply in the above-identified application, requiring a petition for an extension of time for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. |              |                                                                            |            |                                        |              |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b) must be filed and granted to restore the application to pending status.</b>                                                                                                                                                           |              |                                                                            |            |                                        |              |
| SEND ALL TO THE ADDRESS ASSOCIATED WITH:<br>Customer No. 23859                                                                                                                                                                                                                                                                                                             |              |                                                                            |            |                                        |              |
| <br>SIGNATURE<br>Lizette M. Fernandez<br>NAME<br>46,694<br>REGISTRATION NUMBER                                                                                                                                                                                                         |              |                                                                            |            |                                        |              |